09/847,134 <page

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TERMINAL (ENTER 1, 2, 3, OR ?):2

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      3
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         Feb 01
                 DKILIT now produced by FIZ Karlsruhe and has a new update
                 frequency
NEWS
     5
         Feb 19
                 Access via Tymnet and SprintNet Eliminated Effective 3/31/02
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         Mar 08
                 Gene Names now available in BIOSIS
NEWS
     7
         Mar 22
                 TOXLIT no longer available
NEWS 8
         Mar 22
                 TRCTHERMO no longer available
                 US Provisional Priorities searched with P in CA/CAplus
NEWS 9
        Mar 28
                 and USPATFULL
NEWS 10
        Mar 28
                 LIPINSKI/CALC added for property searching in REGISTRY
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         Apr 02
                 PAPERCHEM no longer available on STN. Use PAPERCHEM2 instead.
NEWS 12
                 "Ask CAS" for self-help around the clock
         Apr 08
NEWS 13
        Apr 09
                 BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS 14
        Apr 09
                 ZDB will be removed from STN
                 US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS 15
         Apr 19
NEWS 16
         Apr 22
                 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 17
                 BIOSIS Gene Names now available in TOXCENTER
         Apr 22
NEWS 18
         Apr 22
                Federal Research in Progress (FEDRIP) now available
                New e-mail delivery for search results now available
NEWS 19
         Jun 03
NEWS 20
         Jun 10
                MEDLINE Reload
NEWS 21
         Jun 10
                 PCTFULL has been reloaded
                FOREGE no longer contains STANDARDS file segment
NEWS 22
         Jul 02
NEWS EXPRESS
             February 1 CURRENT WINDOWS VERSION IS V6.0d,
              CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP),
              AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002
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              Welcome Banner and News Items
NEWS PHONE
              Direct Dial and Telecommunication Network Access to STN
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              CAS World Wide Web Site (general information)
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Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:

http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

```
=> e gastrin?
E1
                    GASTRIMUT/BI
E2
            636
                    GASTRIN/BI
E3
              0 --> GASTRIN?/BI
E4
                    GASTRIPON/BI
              1
E5
                    GASTRIX/BI
              1
E6
                    GASTRIXON/BI
              1
E7
              1
                    GASTRIXONE/BI
E8
            23
                    GASTRO/BI
                    GASTROBAM/BI
E9
              1
E10
              1
                    GASTROBAMATE/BI
E11
              1
                    GASTROCALCI/BI
E12
              1
                    GASTROCALCIN/BI
=> s e2
L1
            636 GASTRIN/BI
=> e bombesin?
E1
            63
                    BOMBESIA/BI
E2
           298
                    BOMBESIN/BI
E3
              0 --> BOMBESIN?/BI
E4
              5
                    BOMBESINATO/BI
E5
             1
                    BOMBETES/BI
E6
            88
                    BOMBI/BI
E7
              2
                    BOMBIC/BI
E8
                    BOMBICCITE/BI
             1
E9
             2
                    BOMBICOL/BI
E10
             2
                    BOMBICOLA/BI
E11
              5
                    BOMBIFORM/BI
E12
             5
                    BOMBIFORMIS/BI
=> s e2
L2
           298 BOMBESIN/BI
=> s l1 and l2
             8 L1 AND L2
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FULL ESTIMATED COST ENTRY SESSION 8.38 9.01

FILE 'MEDLINE' ENTERED AT 11:57:12 ON 11 JUL 2002

FILE 'CAPLUS' ENTERED AT 11:57:12 ON 11 JUL 2002 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE 'BIOSIS' ENTERED AT 11:57:12 ON 11 JUL 2002 COPYRIGHT (C) 2002 BIOLOGICAL ABSTRACTS INC.(R)

FILE 'USPATFULL' ENTERED AT 11:57:12 ON 11 JUL 2002
CA INDEXING COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'EMBASE' ENTERED AT 11:57:12 ON 11 JUL 2002 COPYRIGHT (C) 2002 Elsevier Science B.V. All rights reserved.

=> s 13 L4 4305 L3

=> s l4 and (chelat? or ligand?)
L5 356 L4 AND (CHELAT? OR LIGAND?)

=> s l5 and (metal or metals)
L6 32 L5 AND (METAL OR METALS)

=> dup rem 17
PROCESSING COMPLETED FOR L7
L8 3 DUP REM L7 (0 DUPLICATES REMOVED)

=> d ibib ab 1-YOU HAVE REQUESTED DATA FROM 3 ANSWERS - CONTINUE? Y/(N):y 09/847,134

```
L8 ANSWER 1 OF 3 USPATFULL
ACCESSION NUMBER:
2002:105653 USPATFULL
TITLE:
Gastrin receptor-avid peptide conjugates
Hoffman, Timochy J., Columbia, Mo, UNITED STATES
Volkert, Wynn A., Columbia, Mo, UNITED STATES
Sieckman, Gary, Abhland, MO, UNITED STATES
Smith, Charles J., Columbia, MO, UNITED STATES
MUMBER KIND DATE

**NUMBER KIND DATE**
**DATE:***
**NUMBER KIND DATE**
**DATE:**
**PATENT INFORMATION: US 2002054855 A1 20020509 (9)
RELATED APPLIN. INFO: Continuation-in-part of Ser. No. US 2000-537423, filed on 29 Mar 2000, UNKNOWN
ULLILTY
FILE SEGMENT: ULLILTY
FILE SEGMENT: KORN A & Associates, Suite 410, 30500 Northwestern Highway, Farmington Hills, MI, 48334

**NUMBER OF CLAIMS: 61
**EXEMPLARY CLAIM: 1
**NUMBER OF DRAWINGS: 12 Drawing Page(s) 2720
**CAS INDEXING IS AVAILABLE FOR THIS PATENT.**
AB A compound for use as a therapeutic or diagnostic radiopharmaceutical includes a group capable of complexing a medically useful matal attached to a moiety which is capable of binding to a gastrin releasing peptide receptor: A method for treating a subject having a neoplastic disease includes administering to the subject an effective amount of a radiopharmaceutical having a metal chelated with a chalating group covelently linked with a moiety capable of binding to a spatrin releasing peptide receptor expressed on tumor cells with subsequent internalization inside of the cell. A method of forming a therapeutic or diagnostic compound includes reacting a metal synthon with a chalating group covelently linked with a moiety capable of binding a gastrin releasing peptide receptor.
```

```
L8 ANSWER 3 OF 3 USPATFULL 
ACCESSION NUMBER: 95:58
                                                             NTFULL

95:58122 USPATFULL

Bombesin analogs

Edwards, Judson V., Cincinnati, OH, United States

Fanger, Bradford O., Cincinnati, OH, United States

Merrell Dow Pharmaceuticals Inc., Cincinnati, OH,

United States (U.S. corporation)
 INVENTOR(S):
 PATENT ASSIGNEE(S):
                                                                                       R KIND DATE
                                                                          NUMBER
                                                             US 5428019 19950627
US 1994-213378 19940314 (8)
Continuation of Ser. No. US 1993-88413, filed on 16
 PATENT INFORMATION:
 APPLICATION INFO.:
RELATED APPLN. INFO.:
                                                             1993, now abandoned which is a continuation of Ser.
                                                             US 1991-704863, filed on 23 May 1991, now abandoned Utility Granted Warden. Jill Davenport, A. M. Collier, Kenneth J.
DOCUMENT TYPE:
FILE SEGMENT:
 PRIMARY EXAMINER:
ASSISTANT EXAMINER:
LEGAL REPRESENTATIVE:
NUMBER OF CLAIMS:
EXEMPLARY CLAIM:
NUMBER OF DRAWINGS:
                                                             3 Drawing Figure(s); 3 Drawing Page(s)
NUMBER OF DRAWINGS: 3 Drawing rigure(B); 3 Drawing rayets)
LINE COUNT: 1307

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Agonists and Antagonist of bombasin are derivatives
of naturally occurring bombasin possessing a methyl sulfide or
a methyl amide bond connecting the two amino acide on the carboxy
terminal end. Agonist and antagonist activities are confirmed
using conventional competitive binding and biochemical assays as well
as
```

conventional physiological tests and the use of these derivatives in a variety of conditions. Use of these peptides include stimulating or antagonizing growth of tissues, especially lung, and a means for effecting treatment for digestional disorders. Treatment comprises administering to a patient in need thereof, an effective amount of a bombssia naslog.

```
L8 ANSWER 2 OF 3 USPATFULL
ACCESSION NUMBER: 97:104
                                                                        97:104440 USPATFULL
                                                                       97:104440 USPATFULL
Polypeptide derivatives
Albert, Rainer, Basel, Switzerland
Bauer, Wilfried, Lampenberg, Switzerland
Pless, Janos, Basel, Switzerland
Novartis AG, Basel, Switzerland (non-U.S. corporation)
  TITLE:
INVENTOR(S):
  PATENT ASSIGNEE(S):
                                                                                      NUMBER
                                                                                                        KIND DATE
                                                                       US 5686410 19971111
US 1994-276280 19940718 (8)
Continuation of Ser. No. US 1993-17723, filed on 16
 PATENT INFORMATION:
  APPLICATION INFO.:
RELATED APPLN. INFO.:
                                                                        1993, now abandoned which is a continuation of Ser.
                                                                        US 1991-671763, filed on 18 Mar 1991, now abandoned
                                                                    DATE
  PRIORITY INFORMATION:
GB 1990-4258 19900226
GB 1990-5295 19900309
Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Hutzell, Paula K.
ASSISTANT EXAMINER: Prickril, Benet
LEGAL REPRESENTATIVE: Borovian, Joseph J., Kassenoff, Melvyn M.
NUMBER OF CLAIMS: 17
EXEMPLARY CLAIM: 1
LINE COUNT: 123
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A biologically active peptide selected from growth factors, peptide hormones, interferons and cytokines and analogues and derivatives thereof, and bearing at least one chelating group linked to an amino group of said peptide, the chelating group being capable of complexing a detectable element and such amino group having no significant binding affinity to target receptors, are complexed with a detectable element and are useful as a pharmaceutical, e.g. a radiopharmaceutical for in vivo imaging of target tissues or for therapy.
```

09/847,134 <page

=> s 16 not 17 L9 29 L6 NOT L7

=> dup rem 19
PROCESSING COMPLETED FOR L9
L10 24 DUP REM L9 (5 DUPLICATES REMOVED)

=> d ibib ab 1- YOU HAVE REQUESTED DATA FROM 24 ANSWERS - CONTINUE? Y/(N):y

```
L10 ANSWER 1 OF 24 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2002:353971 CAPLUS DOCUMENT NUMBER: 136:365879
TITLE:
                                             Research receptor-avid peptide conjugates and radionuclide complexes Hoffman, Timothy J.; Volkert, Wynn A.; Sieckman,
INVENTOR (S):
                                             Smith, Charles J.; Gali, Hariprasad
                                            Smith, Charles J.; Geli, Heripramed USA U.S. Pat. Appl. Publ., 60 pp., Cont.-in-part of U.S. Ser. No. 537, 423. CODEN: USXXXCO Patent
PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
                                             English
PAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                                                            APPLICATION NO. DATE
         PATENT NO
                                       KIND DATE
```

PATENT NO. KIND DATE APPLICATION NO. DATE

US 2002054855 Al 20020509 US 2001-847134 20010502

PRIORITY APPLIN. INFO: US 2000-537423 A 200000329

AB A compd. for use as a therapeutic or diagnostic radiopharmaceutical includes a group capable of complexing a medically useful metal attached to a moiety which is capable of binding to a gastrin releasing peptide receptor. A method for treating a subject having a neoplastic disease includes administering to the subject an effective amt. of a radiopharmaceutical having a metal chelated with a chelating group attached to a-moiety capable of binding to a gastrin releasing peptide receptor expressed on tumor cells with subsequent internalization inside of the cell. A method of forming a therapeutic or diagnostic compd. includes reacting a metal synthon with a chelating group covalently linked with a moiety capable of binding a gastrin releasing peptide receptor. Numerous examples are provided of the prepn., properties, gastrin releasing peptide

de receptor affinity, tumor uptake and biodistribution of DOTA radionuclide complexes conjugated to bombesin(7-14)NN2 via linkers such as 5-aminovaleric acid and 8-aminooctanoic acid.

NSMER 2 OF 24 USPATFULL (Continued) delivery in human food, agricultural feeds, veterinary compositions, diagnostics, cosmetics and personal care compositions. L10 ANSWER 2 OF 24 USPATFULL

```
L10 ANSWER 2 OF 24

ACCESSION NUMBER:
2002:85540 USPATFULL
2002:85540 USPATFULL
STABILIZED PROTEIN CRYSTALS FORMULATIONS CONTAINING
THEM AND METHODS OF MAKING THEM
MARGOLIN. ALEKEY L., NEWTON, MA, UNITED STATES
CLAIR, NANCY L. ST., ANN ARBOR, MI, UNITED STATES
RAKESTRAW, SCOTT L., NEWARK, DE, UNITED STATES
SHENOY, BHAMI C., WOBURN, MA, UNITED STATES
                                                                                                    NUMBER KIND DATE

US 2002045582 A1 20020418
US 1999-374132 A1 19990810 (9)
Continuation of Ser. No. W0 1999-US9099, filed on 27
Apr 1999, UNKNOWN Continuation-in-part of Ser. No. US
1998-224475, filed on 31 Dec 1998, ABANDONED
    PATENT INFORMATION:
APPLICATION INFO.:
RELATED APPLN. INFO.:
                                                                                                  US 1998-83148P 19980427 (60)
US 1997-70274P 19971231 (60)
Utility
APPLICATION
MARGARET A PIERRI, FISH & NEAVE, 1251 AVENUE OF THE
AMERICAS, NEW YORK, NY, 100201104
187
    PRIORITY INFORMATION:
    FILE SEGMENT:
LEGAL REPRESENTATIVE:
NUMBER OF CLAIMS: 187

EXEMPLARY CLAIM: 187

EXEMPLARY CLAIM: 187

LINE COUNT: 4131

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to methods for the stabilization, storage and delivery of biologically active macromolecules, such as preptides and nucleic acids. In particular, this invention relates to protein or nucleic acids. In particular, this invention relates to protein or nucleic acid crystals, formulations and compositions comprising them. Methods are provided for the crystallization of proteins and nucleic acids and for the preparation of stabilized protein
  protein
                             or nucleic acid crystals for use in dry or slurry formulations. The present invention is further directed to encapsulating proteins, glycoproteins, enzymee, antibodies, hormones and peptide crystals or crystal formulations into compositions for biological delivery to
                             and animals. According to this invention, protein crystals or crystal formulations are encapsulated within a matrix comprising a polymeric carrier to form a composition. The formulations and compositions
  enhance
                             preservation of the native biologically active tertiary structure of
                           proteins and create a reservoir which can slowly release active protein where and when it is needed. Methods are provided preparing stabilized formulations using pharmaceutical ingredients or excipients and optionally encapsulating them in a polymeric carrier to produce compositions and using such protein crystal formulations and compositions for biomedical applications, including delivery of therapeutic proteins and vaccines. Additional uses for the protein crystal formulations and compositions of this invention involve protein
```

```
Lio ANSWER 3 OF 24 USPATFULL

ACCESSION NUMBER: 2001:173335 USPATFULL

Systematic evolution of ligands by exponential enrichment: Chemi-SELEX

Gold, Larry, Boulder, CO, United States
Eaton, Bruce, Boulder, CO, United States
Smith, Drew, Boulder, CO, United States
Wecker, Matthew, Boulder, CO, United States
Jensen, Kirk, Boulder, CO, United States
Gilead Sciences, Inc., Foster, CA, United States (U.S.
```

	corporation)
	NUMBER KIND DATE

PATENT INFORMATION:	
APPLICATION INFO.:	US 1999-412017 19991004 (9)
RELATED APPLN. INFO.: Jun of	Continuation of Ser. No. US 1995-460888, filed on 5
	1995, now patented, Pat. No. US 5962219 Continuation
	Ser. No. US 1995-400440, filed on 8 Mar 1995, now
	patented, Pat. No. US 5705337 Continuation-in-part of
	Ser. No. US 1991-714131, filed on 10 Jun 1991, now
	patented, Pat. No. US 5475096 Continuation-in-part of
	Ser. No. US 1990-536428, filed on 11 Jun 1990, now
	abandoned , said Ser. No. US 714131 And Ser. No. US
	412017 Continuation-in-part of Ser. No. US
1994-309245,	• • • • • • • • • • • • • • • • • • • •
	filed on 20 Sep 1994, now patented, Pat. No. US
5723282	
	Continuation-in-part of Ser. No. US 1994-234997, filed

Continuation-in-part of Ser. No. US 1994-234997, filed on 28 Apr 1994, now patented, Pat. No. US 563867 Continuation-in-part of Ser. No. US 1994-199507, filed on 22 Peb 1994, now patented, Pat. No. US 5472841 Continuation-in-part of Ser. No. US 1993-133935, filed on 17 Sep 1993, now abandoned Continuation-in-part of Ser. No. US 1993-117991, filed on 8 Sep 1993, now abandoned Utility

DOCUMENT TYPE: PILE SEGMENT: PRIMARY EXAMINER: GRANTED Zitomer, Stephanie Swanson & Bratschun, L.L.C. LEGAL REPRESENTATIVE: NUMBER OF CLAIMS: EXEMPLARY CLAIM:

EXEMPLARY CLAIM: 1
LINE COUNT: 1693
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This application provides methods for identifying nucleic acid ligands capable of covalently interacting with targets of interest. The nucleic acids can be associated with various functional units. The method also allows for the identification of nucleic acids that have facilitating activities as measured by their ability to facilitate formation of a covalent bond between the nucleic acid, including its associated functional unit, and its target.

```
L10 ANSMER 4 OF 24 USPATFULL

ACCESSION NUMBER: 2001:158016 USPATFULL

Systematic evolution of ligands by exponential enrichment: photoselection of nucleic acid ligands and solution selex

Gold, Lerry, Boulder, CO, United States

Willis, Michael, Louisville, CO, United States

Koch, Tad, Boulder, CO, United States

Ringquist, Steven, Lyons, CO, United States

Jensen, Kirk, Boulder, CO, United States

Atkinson, Brent, Boulder, CO, United States

Akkinson, Brent, Boulder, CO, United States

SomaLogic, Inc., Boulder, CO, United States

Corporation)
                                                                                                                   NUMBER
                                                                                                                                                                    KIND
                                                                                                                                                                                                   DATE
                                                                                               US 629184 B1 20010918
US 1999-459553 19991213 (9)
Division of Ser. No. US 1998-93293, filed on 8 Jun
1998, now patented, Pat. No. US 6001577 Continuation
 PATENT INFORMATION:
 APPLICATION INFO.:
RELATED APPLN. INFO.:
                                                                                             Ser. No. US 612895, now patented, Pat. No. US 5763177
Continuation-in-part of Ser. No. US 1993-123935, filed on 17 Sep 1993, now abandoned Continuation-in-part of Ser. No. US 1993-143564, filed on 25 Oct 1993, now abandoned Continuation-in-part of Ser. No. US 1991-1714131, filed on 10 Jun 1991, now patented, Pat. No. US 5475096 Continuation-in-part of Ser. No. US 1990-536428, filed on 11 Jun 1990, now abandoned,
 said
                                                                                              Ser. No. US 612895 Continuation-in-part of Ser. No. US 1992-931473, filed on 17 Aug 1992, now patented, Pat. No. US 5270163 Division of Ser. No. US 714131 Utility GRANTED
 DOCUMENT TYPE:
 FILE SEGMENT:
PRIMARY EXAMINER:
LEGAL REPRESENTATIVE:
                                                                                               GRANTED
Zitomer, Stephanie
Swanson & Bratschun, L.L.C.
NUMBER OF CLAIMS:
EXEMPLARY CLAIM:
NUMBER OF DRAWINGS:
LINE COUNT:
NUMBER OF DRAWINGS: 29 Drawing Figure(s); 35 Drawing Page(s)
LINE COUNT: 2330
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for identifying nucleic acid ligands to target
molecules using the SELEX procedure wherein the candidate nucleic acids
contain photoreactive groups and nucleic acid ligands
identified thereby are claimed. The complexes of increased affinity
nucleic acids and target molecules formed in the procedure are
crosslinked by irradiation to facilitate separation from unbound
nucleic
                                                                                               29 Drawing Pigure(s); 35 Drawing Page(s)
 nucleio
                           acids. In other methods partitioning of high and low affinity nucleic acids is facilitated by primer extension steps as shown in the figure
                            which chain termination nucleotides, digestion resistant nucleotides or
nucleotides that allow retention of the cDNA product on an affinity
matrix are differentially incorporated into the cDNA products of either
the high or low affinity nucleic acids and the cDNA products are
L10 ANSWER 5 OF 24 USPATFULL ACCESSION NUMBER: 2001:2 TITLE: Recomb
                                                                                              2001:29329 USPATFULL
Recombinant expression of proteins from secretory cell
                                                                                             lines
Newgard, Christopher B., Dallas, TX, United States
Halban, Philippe, Geneva, Switzerland
Normington, Karl D., Dallas, TX, United States
Clark, Samuel A., Rockwell, TX, United States
Clark, Samuel A., Rockwell, TX, United States
Thigpen, Anice E., Dallas, TX, United States
Quasde, Christian, Dallas, TX, United States
Kruse, Fred, Dallas, TX, United States
Kruse, Fred, Dallas, TX, United States
Austin, TX, United States (U.S. corporation)
Betagene, Inc., Dallas, TX, United States (U.S. corporation)
                                                                                               lines
 INVENTOR (S):
```

PATENT ASSIGNEE (S) :

PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN. INFO.:

LEGAL REPRESENTATIVE: NUMBER OF CLAIMS: EXEMPLARY CLAIM: NUMBER OF DRAWINGS:

LINE COUNT: 7541
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

DOCUMENT TYPE: FILE SEGMENT: PRIMARY EXAMINER: corporation)

on 19 Jan 1996 Utility Granted

Campbell, Eggerton A. Arnold, White & Durkee

35 Drawing Figure(s); 29 Drawing Page(s)

DEXING IS AVAILABLE FOR THIS PATENT.
The present invention a provides methods for production of heterologous polypeptides using a variety recombinantly engineered secretory cell lines. The common feature of these cell lines is the absence of expression of at least one endogenous polypeptide. The host cell machinery normally used to produce the endogenous polypeptide is then usurped for the purpose of making the heterologous polypeptide. Also described are methods engineering cells for high level expression, methods of large scale protein production, and methods for treatment of disease in vivo using viral delivery systems and recombinant cell

NUMBER KIND DATE

US 6194176 B1 20010227
US 1997-785271 19970117 (8)

Continuation in part of Ser. No. US 1996-589028, filed

```
L10 ANSWER 6 OF 24 USPATFULL
  ACCESSION NUMBER:
                                                                                                                       2000:87959 USPATFULL
Recombinant expression of proteins from secretory cell
lines
  TITLE:
                                                                                                                       lines
Newgard, Christopher B., Dallas, TX, United States
Normington, Karl D., Dallas, TX, United States
Clark, Samuel A., Rockwall, TX, United States
Clark, Samuel A., Rockwall, TX, United States
Thigpen, Anice E., Dallas, TX, United States
Quaade, Christian, Dallas, TX, United States
Kruse, Fred, Dallas, TX, United States
Betagene, Inc., Dallas, TX, United States (U.S.
corporation)
Board of Regents, The University of Texas System,
Austin, TX, United States (U.S. corporation)
 INVENTOR(S):
  PATENT ASSIGNEE(S):
                                                                                                                                              NUMBER
                                                                                                                    US 6087129
US 1996-589028
Utility
Granted
Campbell, Eggerton A.
Arnold, White & Durkee
26
PATENT INFORMATION:
APPLICATION INFO.:
DOCUMENT TYPE:
FILE SEGMENT:
PRIMARY EXAMINER:
LEGAL REPRESENTATIVE:
NUMBER OF CLAIMS:
EXEMPLARY CLAIM:
NUMBER OF DRAWINGS:
LINE COUNT:
                                                                                                                                                                                                                                               20000711
19960119
EMPELARY CLAIM:

16 Drawing Figure(s): 17 Drawing Page(s)
LINE COUNT:

6238
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention a provides methods for production of heterologous polypeptides using a variety recombinantly engineered secretory cell lines. The common feature of these cell lines is the absence of expression of at least one endogenous polypeptide. The host cell machinery normally used to produce the endogenous polypeptide is then usurped for the purpose of making the heterologous polypeptide. Also described are methods engineering cells for high level expression, methods of large scale protein production, and methods for treatment of disease in vivo using viral delivery systems and recombinant cell lines.
```

L10 ANSWER 4 OF 24 USPATFULL

(Continued)

```
LIO ANSWER 7 OF 24 USPATFULL

ACCESSION NUMBER: 1999:12112 USPATFULL

TITLE: Systematic evolution of ligands by exponential enrichment: chemi-selex

Gold, Larry, Boulder, CO, United States
Eaton, Bruce, Boulder, CO, United States
Wecker, Matthew, Boulder, CO, United States
Wecker, Matthew, Boulder, CO, United States
Nexater Pharmaceuticals, Inc., Boulder, CO, Un
```

```
L10 ANSWER 9 OF 24 USPATFULL ACCESSION NUMBER: 1998:1
                                                                    1998:138866 USPATFULL
                                                                  Compounds and pharmaceutical uses of peptides of bombesin and GRP Kratenansky, John L., Palo Alto, CA, United States Merrell Pharmaceuticals Inc., Cincinnati, OH, United States (V.S. corporation)
   INVENTOR(S):
PATENT ASSIGNEE(S):
                                                                                 NUMBER
                                                                                                                   KIND
                                                                                                                                      DATE
  PATENT INFORMATION:
APPLICATION INFO.:
RELATED APPLN. INFO.:
                                                                                                                     19981110
                                                                   US 5834433
US 1996-960130
                                                                  US 1996-960130 19960223 (8)
Continuation of Ser. No. US 1995-447528, filed on 23
May 1995, now abandoned which is a continuation of
  Ser.
                                                                   No. US 1994-278692, filed on 21 Jul 1994, now
                                                                 which is a continuation of Ser. No. US 1991-735402, filed on 24 Jul 1991, now abandoned which is a continuation-in-part of Ser. No. US 1990-558031, filed on 26 Jul 1990, now abandoned Utility Granted Davenport, Avis M. Payne, T. Helen 8
  abandoned
 DOCUMENT TYPE:
FILE SEGMENT:
PRIMARY EXAMINER:
  LEGAL REPRESENTATIVE:
NUMBER OF CLAIMS:
EXEMPLARY CLAIM:
EXEMPLARY CLAIM:
LINE COUNT:
878
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A method for controlling the growth of tumor tissues, especially small cell lung. Treatment comprises administering to a patient in need thereof, an effective amount of a bombesin/GRP type inhibitor.
                     Antagonists of bombesin/GRP which are derivatives of naturally
  occurring
                   ing bombesin/GRP possessing a thiomethylene or methylene sulfoxide bond connecting the two amino acids on the carboxy terminal end is modified are described. The antagonism is confirmed using conventional competitive binding and biochemical assays as well as conventional physiological tests and the use of these derivatives in a variety of conditions in which bombesin/GRP is implicated is also described.
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DATE NUMBER R KIND US 5861254
US 1997-792075
Utility
Granted
Zitomer, Stephanie W.
Swanson & Bratschun LLC
13 PATENT INFORMATION: APPLICATION INFO.: DOCUMENT TYPE: FILE SEGMENT: 19990119 19970131 (8) DOCUMENT TYPE: Utility
PILE SEGMENT: Granted
PRIMARY EXAMINER: Zitomer, Stephanie W.
LEGAL REPRESENTATIVE: Swanson & Bratschun LLC
NUMBER OF CLAIMS: 13
EXEMPLARY CLAIM: 1 1327
LINE COUNT: 1327
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Described herein are methods for improved partitioning between high and low affinity nucleic acid ligands identified through the SELEX method, termed Flow Cell SELEX. The Flow Cell SELEX method achieves partitioning between high and low affinity nucleic acid ligands using surface plasmon resonance technology. The method of the present invention presents a new and powerful approach to select nucleic acid ligands by providing a partitioning method which 1) enables a significant increase in the efficiency of partitioning from traditional partitioning methods used in SELEX, 2) allows for real time monitoring of the partitioning of the high affinity ligands from the low affinity ligands 3) allows for the ability to select for a nucleic acid ligand having specific Kinetic properties, 4) does not rely on radiolabeling or other means of tagging for detection, and 5) allows for use of smaller amounts of target than in traditional methods of SELEX. L10 ANSWER 10 OF 24 ACCESSION NUMBER: USPATFULL. SPATFULL
1998:91791 USPATFULL
Parallel selex
Eaton, Bruce E., Boulder, CO, United States
Gold, Larry, Boulder, CO, United States
Nextstar Pharmaceuticals, Inc., Boulder, CO, United
States (U.S. corporation) INVENTOR (s): PATENT ASSIGNEE(S): NUMBER KIND DATE

US 5789160 19980804
US 1995-463101 19950605 (8)
Division of Ser. No. US 1994-309245, filed on 20 Sep
1994 which is a continuation-in-part of Ser. No. US
1991-714131, filed on 10 Jun 1991, now patented, Pat.
No. US 5475096 which is a continuation-in-part of Ser.
No. US 1990-536428, filed on 11 Jun 1990, now PATENT INFORMATION: PATENT INFORMATION.
APPLICATION INFO.:
RELATED APPLN. INFO.: No. US 1990-536428, filed on 11 Jun 1990, now

abandoned

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted

PRIMARY EXAMINER: Elliott. George C.
ASSISTANT EXAMINER: Schwartzman, Robert

LEGAL REPRESENTATIVE: Swanson & Bratschun LLC

NUMBER OF CLAIMS: 20

EXEMPLARY CLAIM: 12 Drawing Pigure(s); 12 Drawing Page(s)

LINE COUNT: 1986

This invention disclosures a method for coevolving products from two or more reactants, along with the nucleic acid that can facilitate the reaction for making the products. The invention further discloses the products and facilitating nucleic acide produced by said method.

L10 ANSWER 8 OF 24 USPATFULL
ACCESSION NUMBER:
TITLE:
INVENTOR(S):
Schneider, Daniel J., Broomfield, CO, United States
Vanderelice, Rebecca, Boulder, CO, United States
Gold, Larry, Boulder, CO, United States
PATENT ASSIGNEE(S):
NeXstar Pharmaceuticals, Inc., Boulder, CO, United
States (U.S. corporation)

```
LIO ANSMER 11 OF 24 USPATFULL

ACCESSION NUMBER: 1998:65372 USPATFULL

Systematic evolution of ligands by exponential enrichment: Chemi-SELEX Gold, Larry, Boulder, CO, United States Eaton, Bruce, Boulder, CO, United States Wecker, Matthew, Boulder, CO, United States Wecker, Matthew, Boulder, CO, United States Jensen, Kirk, Boulder, CO, United States Nexstar Pharmaceuticals, Inc., Boulder, CO, United States (U.S. corporation)
                                                                                                                  NUMBER KIND DATE
US 5763595
US 1007
                                                                                                                  US 5763595 19980609
US 1995-463093 19950605 (8)
Continuation of Ser. No. US 1995-400440, filed on 8
    PATENT INFORMATION:
    APPLICATION INFO.:
RELATED APPLN. INFO.:
                                                                                                               1995 which is a continuation-in-part of Ser. No. US
1994-109245, filed on 20 Sep 1994, now patented, Pat.
No. US 5732289 Ser. No. Ser. No. US 1994-234997, filed
on 28 Apr 1994, now patented, Pat. No. US 5633867 Ser.
No. Ser. No. US 1994-199507, filed on 22 Peb 1994, now
patented, Pat. No. US 5472841 Ser. No. Ser. No. US
1993-123935, filed on 17 Sep 1993, now abandoned And
Ser. No. US 1991-714131, filed on 10 Jun 1991, now
patented, Pat. No. US 5475096 which is a
continuation-in-part of Ser. No. US
1990-536428, filed
on 11 Jun 1990, now abandoned
Utility
Granted
Zitomer, Stephanie W.
Swanson & Bratschun LLC
5
    DOCUMENT TYPE:
    FILE SEGMENT:
PRIMARY EXAMINER:
    LEGAL REPRESENTATIVE:
    NUMBER OF CLAIMS:
EXEMPLARY CLAIM:
  EXEMPLARY CLAIM:

1 LINE COUNT:

2183

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This application provides methods for identifying nucleic acid ligands capable of covalently interacting with targets of interest. The nucleic acids can be associated with various functional units. The method also allows for the identification of nucleic acids that have facilitating activities as measured by their ability to facilitate formation of a covalent bond between the nucleic acid, including its associated functional unit, and its target.
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L10 ANSWER 13 OF 24 USPATFULL

ACCESSION NUMBER: 1998:4744 USPATFULL

TITLE: Thioether conjugates

Willner, David, Hamden, CT, United States

Trail, Panela A., Farmington, CT, United States

King, H. Dalton, Hamden, CT, United States

Hofstead, Sandra J., Middletown, CT, United States

Greenfield, Robert S., Wallingford, CT, United States

PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, Princeton, NJ, United

States (U.S. corporation)
                                                        NUMBER KIND DATE

US 5708146 19980113
US 1995-469840 19950606 (8)
Division of Ser. No. US 1992-24951, filed on 23 Jan
1992, now patented, Pat. No. US 5622929
 PATENT INFORMATION:
 APPLICATION INFO.:
RELATED APPLN. INFO.:
 DOCUMENT TYPE:
                                                         Utility
Granted
 FILE SEGMENT:
 PRIMARY EXAMINER:
LEGAL REPRESENTATIVE:
                                                         Peselev. Elli
                                                         Poor, Brian, Sorrentino, Joseph M., Savitsky, Thomas
R.
NUMBER OF CLAIMS:
EXEMPLARY CLAIM:
NUMBER OF DRAWINGS:
                                                        18 Drawing Figure(s); 17 Drawing Page(s)
                                                        2044
LINE COUNT: 2044
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Provided are drug/ligand compounds of Formula [I]: ##STR1##
[I] in which
                D is a drug moiety:
                n is an integer from 1 to 10:
                p is an integer from 1 to 6:
                Y is O or NH.sub.2.sup.+ C1.sup.-;
                z is 0 or 1:
                g is about 1 to about 10:
                X is a ligand; and,
                A is a Michael Addition Adduct.
               In a preferred embodiment, the ligand is an immunoglobulin, preferably a chimeric antibody or fragment thereof. Also provided are formulations comprising as an active ingredient a compound of Pormula (I), intermediates useful for preparing the compounds of Pormula (I), processes for preparing the compounds of Pormula (I), and methods for using the compounds of the invention.
```

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SPATFULL
1998:22351 USPATFULL
Parallel selex
Eaton, Bruce E., Boulder, CO, United States
Gold, Larry, Boulder, CO, United States
NeXstar Pharmaceuticals, Inc., Boulder, CO, United
States (U.S. corporation)
        TITLE:
INVENTOR(S):
       PATENT ASSIGNEE(S):
                                                                                                                                                          MBER KIND DATE
                                                                                                                                                NUMBER
                                                                                                                       NUMBER KIND DATE

US 5721592 19980303
US 1995-462389 19950605 (8)
Division of Ser. No. US 1994-309245, filed on 20 Sep
1994 which is a continuation-in-part of Ser. No. US
1991-714131, filed on 10 Jun 1991, now patented, Pat.
No. US 5475096 which is a continuation-in-part of Ser.
No. US 1990-536428, filed on 11 Jun 1990, now
       PATENT INFORMATION:
       APPLICATION INFO.:
RELATED APPLN. INFO.:
    abandoned
DOCUMENT TYPE:
FILE SEGMENT:
FILE SEMENT:
PRIMARY EXAMINER:
LEGAL REPRESENTATIVE:
NUMBER OF CLAIMS:
EXEMPLARY CLAIM:
NUMBER OF DRAWINGS:
LINE COUNT:
                                                                                                                       Utility
Granted
Zitomer, Stephanie W.
Swanson & Bratschun LLC
                                                                                                                         12 Drawing Figure(s); 12 Drawing Page(s)
     NUMBER OF DRAWINGS: 12 Drawing Figure(s); 12 Drawing Page(s)
LINE COUNT: 1915
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB This invention discloses a method for coevolving products from two or more reactants, along with the nucleic acid that can facilitate the reaction for making the products. The invention further discloses the products and facilitating nucleic acids produced by said method.
       L10 ANSWER 14 OF 24 USPATFULL
                                                                                                                     SPATFULL
1998:1626 USPATFULL
Systematic evolution of ligands by
exponential enrichment: chemi-SELEX
GOld, Larry, Boulder, CO, United States
Eaton, Bruce, Boulder, CO, United States
Smith, Drew, Boulder, CO, United States
Wecker, Matthew, Boulder, CO, United States
Jensen, Kirk, Boulder, CO, United States
Nextstar Pharmaceuticals, Inc., Boulder, CO, United
States (U.S. corporation)
       ACCESSION NUMBER:
       TITLE:
     INVENTOR(S):
     PATENT ASSIGNEE (S):
                                                                                                                     NUMBER KIND DATE

19980106
US 1995-400440
19950308 (8)
Continuation-in-part of Ser. No. US 1993-117991, filed on 8 Sep 1993, now abandoned Ser. No. Ser. No. US 1993-123935, filed on 17 Sep 1993, now abandoned Ser. No. Ser. No. US 1994-123955, filed on 17 Sep 1993, now abandoned Ser. No. Ser. No. US 1994-199507, filed on 22 Feb 1994, now patented, Pat. No. US 5472841 Ser. No. Ser. No. US 1994-349997, filed on 28 Apr 1994 Ser. No. Ser. No. US 1994-349997, filed on 20 Sep 1994 And Ser. No. US 1991-714131, filed on 10 Jun 1991, now patented, Pat. No. US 5475096 which is a continuation-in-part of Ser. No. US 1990-536428, filed on 11 Jun 1990, now
       PATENT INFORMATION:
       APPLICATION INFO.:
RELATED APPLN, INFO.:
No. US 1990-536428, filed on 11 Jun 1990, no.

Babandoned

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
FRIMARY EXAMINER: Zitomer, Stephanie W.

LEGAL REPRESENTATIVE: Swanson & Bratschun LLC

NUMBER PO CLAIMS: 7

EXEMPLARY CLAIM: 1

LINE COUNT: 2208

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This application provides methods for identifying nucleic acid

ligands capable of covalently interacting with targets of

interest. The nucleic acids can be associated with various functional

units. The method also allows for the identification of nucleic acids

that have facilitating activities as measured by their ability to

facilitate formation of a covalent bond between the nucleic acid,

including its associated functional unit, and its target.
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L10 ANSWER 12 OF 24 USPATFULL ACCESSION NUMBER: 1998:223

09/847,134 <page

USPATFULL

aliphatic or aromatic linker group, R, R', and R' may be the same or different and may be hydrogen or an aliphatic group, m is an integer.gtoreq.2, provided that the groups R, R', R', L and "P" of a given chain may be the same or different from the groups R, R', R', L and "P" of another chain, n is an integer.gtoreq.0; or a pharmaceutically acceptable sait thereof. The constructs of the present invention are capable of binding a variety of metallic species.

SPATFULL
97:3724 USPATFULL
Thioether conjugates
Willner, David, Hamden, CT, United States
Willner, David, Hamden, CT, United States
King, H. Dalton, Hamden, CT, United States
King, H. Dalton, Hamden, CT, United States
Greenfield, Robert S., Wallingford, CT, United States
Greenfield, Robert S., Wallingford, CT, United States
Braalawaky, Gary R., Glastonbury, CT, United States
Briatol-Myers Squibb Company, New York, NY, United
States (U.S. corporation) L10 ANSWER 16 OF 24 ACCESSION NUMBER: TITLE: PATFULL
97:2021 USPATFULL
Treatment methods using matal-binding
targeted polypeptide constructs
Belinka, Jr., Benjamin A., Kendall Perk, NJ, United ACCESSION NUMBER: TITLE: INVENTOR(S): INVENTOR(S): States Coughlin, Daniel J., Robbinsville, NJ, United States Alvarez, Vernon L., Morrisville, PA, United States Mood, Richard, Rocky Hill, NJ, United States Cytogen Corporation, Princeton, NJ, United States PATENT ASSIGNEE(S): PATENT ASSIGNEE(S): NUMBER KIND DATE
US 5622929 1997042
US 1992-824951 1992012
Utility
Granted
Peselev, Elli
Bristol-Myers Squibb Co.
52 NUMBER KIND DATE

US 5609847 19970311
US 1995-480370 19950607 (8)
Division of Ser. No. US 1993-127351, filed on 28 Sep
1993, now patented, Pat. No. US 5449761
Utility
Granted
Kight, John
Jones, Dameron L.
Lowe, Price, LeBlanc & Becker
11 AUMBER OF DATE

APPLICATION INFO.: US 5622929 19970422

APPLICATION INFO.: US 1992-824951 19920123 (7)

DOCUMENT TYPE: Utility

FILE SEGMENT: Grante

PRIMARY EXAMINER: Peselev, Elli

ERGAL REPRESENTATIVE: Bristol-Hyers Squibb Co.

NUMBER OF CLAIMS: 52

EXEMPLARY CLAIM: 6

NUMBER OF DRAWINGS: 18 Drawing Figure(a); 17 Drawing Page(a)

LINE COUNT: 2212

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Provided are drug/ligand compounds of Formula (I): ##STRI## in which D is a drug moiety; PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN. INFO.: RELATED APPLM. INFO.: Division of set. No. U.S. 5449761

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: ASSISTANT EXAMINER: Lowe, Dameron L.
LEGAL REPRESENTATIVE: Lowe, Price, LeBlanc & Becker
NUMBER OF CLAIMS: 31

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 2 Drawing Figure(s); 2 Drawing Page(s)

LINE COUNT: 1775

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention relates to a method of treating a patient in need thereof,
including a need for diagnosis or treatment, comprising the administration of a metal complex of a polypeptide construct.
The construct comprises a compound of the formula (1): ##STRI## in which, "B" is a hydrocarbon backbone, n is an integer from 1 to 10; p is an integer from 1 to 6; Y is 0 or NH.sub.2.sup.+ C1.sup.-; "P" is a polypeptide capable of targeting particular-cells, tissues or organs of the body, $% \left(\frac{1}{2}\right) =\frac{1}{2}\left(\frac{1}{2}\right) ^{2}$ q is about 1 to about 10; X is a ligand; and, "A" may be the group --NR'--NR"-- or the group --NR'--NR"--L-- in which L may be an aliphatic or aromatic linker group, A is a Michael Addition Adduct. R, R', and R* may be the same or different and may be hydrogen or an aliphatic group, In a preferred embodiment, the ligand is an immunoglobulin, preferably a chimeric antibody or fragment thereof. Also provided are formulations comprising as an active ingredient a compound of Formula (I), intermediates useful for preparing the compounds of Formula (I), processes for preparing the compounds of Formula (I), and methods for using the compounds of the invention. m is an integer .gtoreq.2, provided that the groups R, R', R*, L and of a given chain may be the same or different from the groups R. R', L and "P" of another chain. n is an integer .qtoreq.0; or a pharmaceutically acceptable salt thereof. The constructs of the present invention are capable of binding a variety of metallic species. L10 ANSWER 18 OF 24
ACCESSION NUMBER:
TITLE:
INVENTOR(S):
Selection States
Alvarez, Vernon L., Morriaville, PA, United States
Wood, Richard, Rocky Hill, NJ, United States
Cughlin, Daniel J., Robbinsville, NJ, United States
Wood, Richard, Rocky Hill, NJ, United States
Wood, Richard, Rocky Hill, NJ, United States
Cytogen Corporation, Princeton, NJ, United States L10 ANSWER 17 OF 24 USPATFULL SPATFULL

97:16169 USPATFULL

Thioether conjugates
Willner, David, Hamden, CT, United States
Trail, Pamela A., Farmington, CT, United States
King, H. Dalton, Hamden, CT, United States
Hofstead, Sandra J., Middletown, CT, United States
Greenfield, Robert S., Wallingford, CT, United States
Braslawaky, Gary R., Glastonbury, CT, United States
Bristol-Myers Squibb Company, New York, NY, United
States (U.S. corporation) ACCESSION NUMBER: TITLE: INVENTOR (S): PATENT ASSIGNEE(S): (U.S. PATENT ASSIGNEE(S): NUMBER KIND DATE

US 5606017 19970225
US 1995-466162 19950606 (8)
Division of Ser. No. US 1992-824951, filed on 23 Jan 1992 NUMBER KIND DATE

US 5593656 19970114
US 1995-487221 19950607 (8)
Division of Ser. No. US 1993-127351, filed on 28 Sep
1993, now patented, Pat. No. US 5449761
Utility
Granted
Kight, John
Jones, D. L.
Lowe, Price, LeBlanc & Becker
10
1 PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN. INFO.: PATENT INFORMATION: APPLICATION INFO RELATED APPLN, INFO.: Utility Granted Peselev, Elli 20 DOCUMENT TYPE DOCUMENT TYPE: DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Kight, John
ASSISTANT EXAMINER: Low, Price, LeBlanc & Becker
NUMBER OF CLAIMS: 10
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Figure(s); 2 Drawing Page(s)
LINE COUNT: 1808
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB This invention relates to the preparation and use of novel open-chain or DOCUMENT TYPE: FILE SEGMENT: PRIMARY EXAMINER: NUMBER OF CLAIMS: EXEMPLARY CLAIM: NUMBER OF DRAWINGS: LINE COUNT: MPLARY CLAIM: 1
BERG OF DRAWINGS: 18 Drawing Figure(s); 17 Drawing Page(s)
E COUNT: 2095
INDEXING IS AVAILABLE FOR THIS PATENT.
Provided are drug/ligand compounds of Formula (I): ##STR1## in which D is a drug moiety; n is an integer from 1 to 10; cyclic polypeptide constructs in which two or more polypeptide chains, in an open-chain construct, or one or more chains, in a cyclic construct, are chemically derivatized such that the resulting construct exhibits both matal-binding capability and tissue, organ or cell-targeting selectivity. In particular, the polypeptide constructs p is an integer from 1 to 6; Y is O or NH.sub.2.sup.+ Cl.sup.-; of the present invention comprise compounds of the formula (I): ##STR1## q is about 1 to about 10; which, "B" is a hydrocarbon backbone, "P" is a polypeptide capable of targeting particular cells, tisaues or organs of the body, "A" may be the group --NR'--NR"-- or the group --NR'--NR'--L- in which L may be

L10 ANSWER 15 OF 24 USPATFULL

X is a ligand; and,

A is a Michael Addition Adduct.

In a preferred embodiment, the ligand is an immunoglobulin, preferably a chimeric antibody or fragment thereof. Also provided are formulations comprising as an active ingredient a compound of Formula (I), intermediates useful for preparing the compounds of Formula (I), processes for preparing the compounds of Formula (I), and methods for using the compounds of the invention.

MEDLINE MEDLINE L10 ANSWER 19 OF 24 MEDLINE DUPLICATE 1
974.11499 MEDLINE
974.11499 PubMed ID: 9266477
NMR structure of neuromedin C, a neurotransmitter with an amino terminal CuII-, NiII-binding (ATCUN) motif.
Gammi G; Singer A; Forman-Kay J; Sarkar B
Department of Biochemiatry Research, Hospital for Sick Children, Toronto, Ontario, Canada,
JOURNAL OF PEPTIDE RESEARCH, (1997 Jun) 49 (6) 500-9.
JOURNAL OF PERTIDE RESEARCH, 1997-002X.
Denmark DUPLICATE 1 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

AUTHOR: CORPORATE SOURCE:

SOURCE:

PUB. COUNTRY:

LANGUAGE: FILE SEGMENT: ENTRY MONTH: ENTRY DATE:

Journal code: 9707067. ISSN: 1397-002X.

COUNTRY: Denmark
Journal: Article; (JOURNAL ARTICLE)

UAGE: English
SEGMENT: Priority Journals
Y MONTH: 199710
Y DATE: Entered STN: 19971021
Entered STN: 19971021
The structure of neuromedin C, a lo-residue bombesin-like neuropeptide with the sequence Gly-Asn-His-Ttp-Ala-Val-Gly-His-Leu-Met-NH2, has been investigated. Like human serum albumin, neuromedin C contains the amino-terminal Cull-, NiII-binding (ATCUN) motif which has high affinity for Cull and NiII. The solution structure of the NiII-peptide complex has been calculated based on 2D ROSEY data obtained at 25 degrees C, using a hybrid distance geometry-simulated annealing approach. Comparison of 1H, 13C and 15N chemical shifts and ROSEY data in the presence and absence of NiII demonstrates that the matal binds at the N-terminus of the peptide, leading to a conformation comprising two connected turns including residues 1Gly to 3His and SAIa to 8His. The first turn corresponds to the NiII coordination ligands in a square planar conformation, and the second reflects the interaction between 4Trp and 8His. The results may have important physiological implications in the phenomenon of neurotransmission.

L10 ANSWER 21 OF 24 USPATFULL ACCESSION NUMBER:

SPATFULL
96:9629 USPATFULL
Systematic evolution of ligands by
exponential enrichment: Solution SELEX
Gold, Larry, Boulder, CO, United States
Ringquist, Steven, Boulder, CO, United States
University Research Corporation, Boulder, CO, United
States (U.S. corporation) TITLE: INVENTOR(S):

PATENT ASSIGNEE(S):

PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN. INFO.:

NUMBER KIND DATE

US 5567588 19961022
US 1995-461069 19950605 (8)
Continuation of Ser. No. US 1993-143564, filed on 25
Oct 1993 And a continuation-in-part of Ser. No. US
1991-714131, filed on 10 Jun 1991, now patented, Pat.
No. US 5475096 And Ser. No. US 1992-931473, filed on 17

Aug 1992, now patented, Pat. No. US 5270163 And Ser. No. US 1990-536428, filed on 11 Jun 1990, now

abandoned DOCUMENT TYPE: FILE SEGMENT:

Utility Granted Zitomer, Stephanie W. Swanson & Bartschun LLC PRIMARY EXAMINER:
LEGAL REPRESENTATIVE:
NUMBER OF CLAIMS:
EXEMPLARY CLAIM:
NUMBER OF DRAWINGS:

7 Drawing Figure(s); 7 Drawing Page(s)

NUMBER OF DRAWINGS: 7 Drawing Figure(s); 7 Drawing Page(s)
LINE COUNT: 810
ESTABLE FOR THIS PATENT.

AB Described herein are methods for improved partitioning between high and low affinity nucleic acid ligands identified through the SELEX method, termed solution SELEX. The solution SELEX method achieves partitioning between high and low affinity nucleic acid-target

Area

through a number of methods, including (1) primer extension inhibition which results in differentiable cDNA products. Primer extension inhibition inhibition is achieved with the use of nucleic acid polymerases, including DNA or RNA polymerases, reverse transcriptase, and O.bets.-replicase; (2) exonuclease hydrolysis inhibition which results in only the highest affinity ligands amplifying during PCR. This is achieved with the use of any 3'.fwdarw.5' double-stranded exonuclease; (3) linear to circle formation to generate molecules amplifiable during PCR; or (4) PCR amplification of single-stranded nucleic acids. A central theme of the method of the present invention

that the nucleic acid candidate mixture is acreened in solution and results in preferential amplification of the highest affinity RNA ligand or catalytic RNA.

L10 ANSWER 20 OF 24 USPATFULL ACCESSION NUMBER: 96:10866

96:108663 USPATFULL Matal-binding targeted polypeptide constructs Belinka, Jr., Benjamin A., Kendall Park, NJ, United TITLE: INVENTOR(S):

PATENT ASSIGNEE(S): (U.S. corporation)

NUMBER KIND DATE

US 5578288 19961126
US 1995-480367 19950607 (8)
Division of Ser. No. US 1993-127351, filed on 28 Sep
1993, now patented, Pat. No. US 5449761
Utility
Granted
Kight, John
Jones, Dameron L.
Lowe, Price, LeBlanc & Becker
28 PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN. INFO.:

1993, now patented, Pat. No. US 5449761

DOCUMENT TYPE: Utility
PILE SEGMENT: Granted
PRIMARY EXAMINER: Kight, John
ASSISTANT EXAMINER: Lowe, Price, LeBlanc & Becker
NUMBER OF CLAIMS: 28

EXEMPLARY CLAIM: 120

INWHER OF DRAWINGS: 2 Drawing Figure(s); 2 Drawing Page(s)

LINE COUNT: 1800

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to the preparation and use of novel open-chain or

cyclic polypeptide constructs in which two or more polypeptide chains, in an open-chain construct, or one or more chains, in a cyclic construct, are chemically derivatized such that the resulting construct exhibits both matel-binding capability and tissue, organ-or cell-tergeting selectivity. In particular, the polypeptide constructs

the present invention comprise compounds of the formula (I): ##STR1##

which, "B" is a hydrocarbon backbone, "P" is a polypeptide capable of targeting particular cells, tissues or organs of the body, "A" may be the group --NR'--NR"-- or the group --NR'-- NR"--L-- in which L may be an aliphatic or aromatic linker group, R, R', and R" may be the same or different and may be hydrogen or an aliphatic group, m is an integer.gtoreq.2, provided that the groups R, R', R', L and "P" of a given chain may be the same or different from the groups R, R', R', L and "P" of another chain, n is an integer.gtoreq.0; or a pharmaceutically acceptable salt thereof. The constructs of the present invention are capable of binding a variety of metallic species.

ANSWER 22 OF 24

ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

4 MEDLINE DUPLICATE 2
96213871 MEDLINE 96213871 PubMed ID: 8644999
Extracellular zinc ions induces mitogen-activated protein kinase activity and protein tyrosine phosphorylation in bombesin-sensitive Swiss 3T3 fibroblasts.

AUTHOR: CORPORATE SOURCE:

bombesin-sensitive Swiss 3T3 fibroblasts.

Hansson A
Department of Molecular Medicine, The Endocrine and
Diabetes Unit, Karolinska Institutet, Stockholm, Sweden.
ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS, (1996 Apr 15) 328
(2) 233-8.
Journal code: 0372430. ISSN: 0003-9861.
United States
Journal; Article; (JOURNAL ARTICLE)
English
Priority Journals
199607
Entered STN: 19960726

PUB. COUNTRY:

LANGUAGE: FILE SEGMENT: ENTRY MONTH: ENTRY DATE: Y MONTH: 199607 Y DATE: Entered STN: 19960726 Last Updated on STN: 19980206 Entered Medline: 19960712 The growth factor-like effect of zinc in vitro and in vivo, which has

been recognized was investigated with respect to its mechanisms of

been recognized was investigated with respect to its mechanisms of action.

Addition of zinc chloride to bombesin-sensitive Swiss 3T3 mouse fibroblasts induced a fourfold stimulation in the cytosolic myelin basic protein kinase activity. The response was dose- and time-dependent, with an ED50 of around 100 microM and a peak at 5 min. The kinase activity coeluted with p42 MAP kinase using chromatography on Mono-Q ion exchange. Intracellular loading of cells with the heavy matal chalator BTC-SN did not attenuate the response to zinc. The action of zinc was not suppressed by long-term pretreatment with 4-beta-phorbol dibutyrate (48 h). Addition of 0.3 mM vanadate alone did not increase the kinase activity, but prolonged the action of zinc when added simultaneously. Addition of zinc (0.3 mM) or epidermal growth factor for

min resulted in a marked increase in tyrosine phosphorylation of proteins with apparent molecular weights of approximately 100, 105-120, 215, and 240 kDa in whole cell extracts. Immunoprecipitation against the p85 subunit of phosphatidylinositol 3-kinase resulted in the appearance of

two phosphotyrosine-containing proteins, 100 and 115 kDs, in extracts from cells treated with zinc or epidermal growth factor, indicating that the tyrosine phosphorylation was recognized by the corresponding SP2-domains. The present study demonstrates that extracellular zinc has the potential to partially mimic the action of growth factors on intracellular MAP kinase activation and protein tyrosine phosphorylation.

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L10 ANSWER 23 OF 24 USPATFULL
ACCESSION NUMBER: 95:82355
```

SPATFULL
95:82355 USPATFULL
Metal-binding targeted polypeptide constructs
Belinka, Jr., Benjamin A., Kendall Park, NJ, United TITLE: INVENTOR(S):

States
Coughlin, Daniel J., Robbinsville, NJ, United States
Alvarez, Vernon L., Morriaville, PA, United States
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to the preparation and use of novel open-chain or

cyclic polypeptide constructs in which two or more polypentide chains.

cyclic polypeptide constructs in which two or more polypeptide chains, in an open-chain construct, or one or more chains, in a cyclic construct, are chemically derivatized such that the resulting construct exhibits both matel-binding capability and tissue, organ or cell-targeting selectivity. In particular, the polypeptide constructs

the present invention comprise compounds of the formula (I): ##STR1##

which, "B" is a hydrocarbon backbone, "P" is a polypeptide capable of targeting particular cells, tissues or organs of the body, "A" may be the group --NR'--NR"--L-- in which L may be

aliphatic or aromatic linker group, R, R' and R* may be the same or different and may be hydrogen or an aliphatic group, m is an integer .gtoreq.2, provided that the groups R, R', R', L and *P' of a given chain may be the same or different from the groups R, R', R*, L and *P' of another chain, n is an integer gtoreq.0; or a pharmaceutically acceptable salt thereof. The constructs of the present invention are capable of binding a variety of metallic species.

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X-A.sup.1 -A.sup.2 -A.sup.3 -A.sup.4 -A.sup.5 -A.sup.6 -A.sup.7 -A.sup.8 -.sub.psi -A.sup.9 -Q

wherein Q is NH.sub.2 or OQ.sup.1 where Q.sup.1 is hydrogen, C.sub.1-10 alkyl, phenyl or phenyl-C.sub.7-10 alkyl; X is hydrogen or a single

linking to A.sup.2 the acyl residue of an organic acid, or a group of formula R.sup.1 CO-- wherein (1) R.sup.1 is hydrogen, C.sub.1-10 alkyl, phenyl or phenyl-C.sub.7-10 -alkyl, (2) R.sup.1 CO-- is (a) R.sup.2 (R.sup.3)-CO-- wherein R.sup.2 is hydrogen, C.sub.1-10 alkyl, phenyl or C.sub.7-10 phenyl-C.sub.7-10 -alkyl, R.sup.3 is hydrogen or C.sub.1-10 alkyl, (b) R.sup.4 --O--CO-- wherein R.sup.4 is C.sub.1-10 alkyl, phenyl or phenyl-C.sub.7-10 -alkyl, A.sup.1 is D-, L- or DL-pGlu,, Nal, Phe, Thl, Tyr, Tpi, Hca, Hpp, Mpp, Trp or Trp substituted

the benzene ring by one or more members selected from the group consisting of halogen, NO.sub.2, NN.sub.2, ON, C.sub.1-3 alkyl and C.sub.1-3 alkoxy wherein halogen is fluorine, chlorine and bromine; wherein A.sup.2 -A.sup.7 and A.sup.9 are each amino acid residues; A.sup.8 is a reduced isostere of Leu or Phe.